

SOLAR RELAY

INVERTER CONTROL with GE

GEH Hybrid Inverter



CATCH Power A trademark of Project H Pty Ltd

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IMPORTANT..PLEASE READ

The CATCH Solar Relay works by emulating the energy meter the inverter would normal	ly use.
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This means two things are really important.

1. You need to read the inverter manual:

Make sure you understand how to setup the inverter for export control. When you read the manual it will talk about an energy meter or CT...Follow the instructions exactly as they are in the manual. If there are any changes required we will let you know further down in this document.

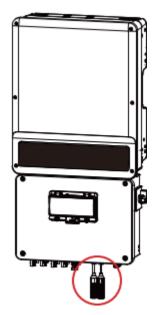
2. Read the CATCH Solar Relay installation manual:

The manual outlines how to setup the CATCH Solar Relay to control loads. It also outlines circuit breaker requirements, how to use the CATCH Configurator App, etc.

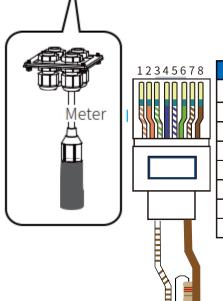
Once you have followed step one and two you are ready to proceed....



Wiring Instructions



CATCH Solar Relay and the inverter communicate using RS485. Connecting the two pieces of hardware requires a 2 core RS485 cable. When the RS485 cable run is greater than 20m it is recommended to use a 2 core cable designed specifically for RS485 communication, it will typically have a 120 Ohm characteristic impedance. However, for short cable runs any 2 core cable will typically do the job, as long as it is rated for the voltages it will be exposed to. The pink CBUS data cable is ideal for short cable runs.



СТ

SIGNALS

RS485

NO.	Color	BMS Function	Smart Meter Function
1	Orange&White	485_A2	N/A
2	Orange	N/A	N/A
3	Green&White	485_B2	485_B1
4	Blue	CAN_H	N/A
5	Blue&White	CAN_L	N/A
6	Green	N/A	485_A1
7	Brown&White	N/A	485_B1
8	Brown	N/A	485_A1

Pin 8 or Pin 6 => Catch Solar Relay RS485 A Pin 7 or Pin 3 => Catch Solar Relay RS485 B



SOLAR RELAY Setup

The screen below is from the CATCH Power Configuration App. The App can be downloaded from Google Play Store or the Apple iStore.

IMPORTANT



DO A FIRMWARE UPGRADE BEFORE YOU BEGIN

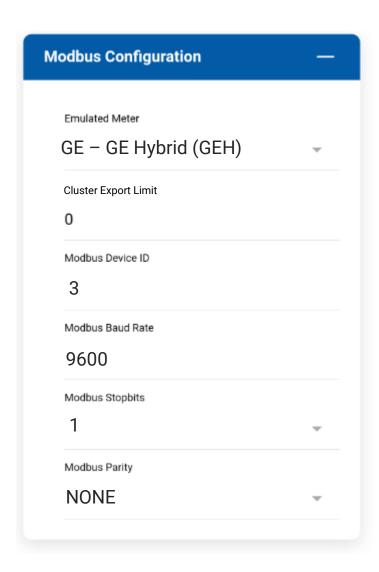
We are adding new inverters, and new control features all the time. Your relay firmware is most likely out of date already. Follow the onscreen instructions and perform a firmware update before you continue on



SOLAR RELAY Setup

Navigate to the Configuration screen and expand the Modbus Configuration section. Fill it out using the details below.

Save your changes.

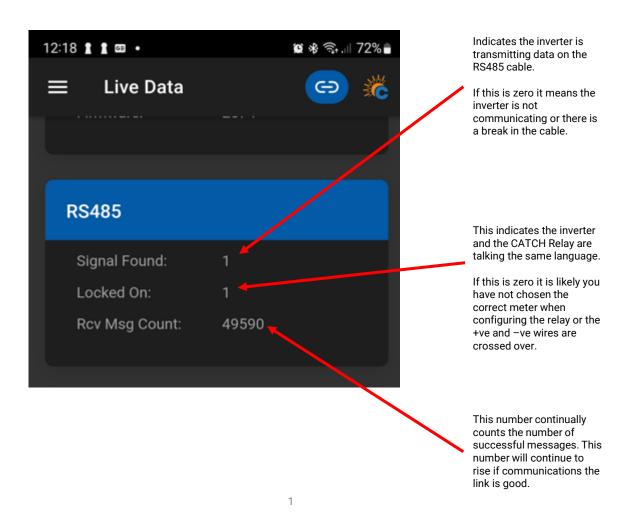




Checking the status of the RS485 interface

Within the CATCH Power app if you navigate to the bottom of the Live Data screen you will see something similar to the screen below.

The RS485 Status Can be used to confirm correct operation





Inverter Setup

Following the inverter installation and commissioning process as you normally would. Including any export limiting requirements that may be required.

THE FOLLOWING ONLY NEEDS
TO BE FOLLOWED IF YOU ARE ENABLING
DYNAMIC / FLEXIBLE EXPORTS

DYNAMIC / FLEXIBLE EXPORT CONTROL



RTU Control

DYNAMIC / FLEXIBLE Export Control



NO NATIVE MONITORING

If you choose to use RTU Control for this inverter, the inverter monitoring platform will not work



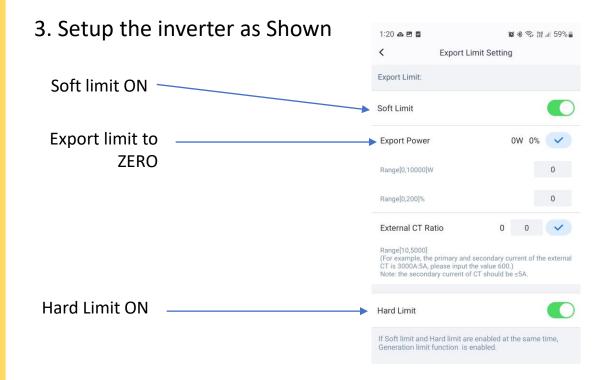
NO BATTERIES

RTU Control cannot be used on Hybrid inverters that have a battery connected.

1. Log into the inverter using the SolarGo commissioning app



Navigate toAdvanced Settings ->Export/Power Limit Settings



DYNAMIC / FLEXIBLE EXPORT CONTRO

SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

SUNSPEC Configuration

GE Does not support SUNSPEC over modbusTCP

REGISTER SITE

DYNAMIC / FLEXIBLE Export Control

Follow the Configuration steps in the Electricians Guide to register the site for the MONOCLE, and for Dynamic / Flexible Exports

DYNAMIC / FLEXIBLE EXPORT CONTROL